سیویلیکا - ناشر تخصصی مقالات کنفرانس ها و ژورنال ها گواهی ثبت مقاله در سیویلیکا CIVILICA.com

عنوان مقاله:

Growth performance and gut function of broiler chickens received barley-based diets with or without an enzyme mixture

محل انتشار:

مجله علوم طیور و بیماریهای طیور, دوره 2, شماره 3 (سال: 1403)

تعداد صفحات اصل مقاله: 7

نویسندگان:

Ali Afifian tehrani - PHD poultry nutrition shahrekord university

Hossein Hassanpour - sharekord university

Mohammad Amir Karimi-Torshizi - tarbiat modares university

Mohammad Reza Akbari - sharekord university

Faribourz Khajali - sharekord university

خلاصه مقاله:

An experimental study was performed to evaluate the responses of broiler chickens to dietary substitution of barley for corn. A total of YaY one-day-old broiler chicks were randomly distributed among 1A floor pens. Six such pens were then randomly assigned to each dietary treatment. Dietary treatments consisted of a corn-based diet, a barley-based diet, and the barley-based diet plus an enzyme mixture. Results indicated that barley substitution for corn significantly (p< ·····) impacted broiler performance criteria. However, enzyme supplementation significantly (p= ····) improved the feed conversion ratio to the extent obtained in the corn control. The villus absorptive surface area was shrunk in birds fed a barley diet compared to the corn diet. Nevertheless, supplementation of the barley diet with the enzyme mixture significantly ($p = \cdot \cdot \cdot \tau$) restored the situation. The expression of the TLR τ gene was significantly down-regulated by replacing barley with corn. Enzyme supplementation of the barley diet significantly (p< ... \) up-regulated TLRY gene expression but not to the extent observed in the corn control group. Significant increases were observed in circulatory levels of uric acid (p< · · · Δ), total protein (p<...), and albumin (p<...) when barley was substituted for corn. Enzyme supplements did not make any significant difference to these variables. In conclusion, the substitution of barley for corn was associated with the poor performance of broilers. However, supplementing barley-based diets with the enzyme mixture improved chicken's performance through enhanced villus absorptive surface area. It reduced the turnover of enterocytes, as reflected in a lower crypt depth in the jejunum. An experimental study was performed to evaluate the responses of broiler chickens to dietary substitution of barley for corn. A total of YaY one-day-old broiler chicks were randomly distributed among VA floor pens. Six such pens were then randomly assigned to each dietary treatment. Dietary treatments consisted of a corn-based diet, a barley-based diet, and the barley-based diet plus an enzyme mixture. Results indicated that barley substitution for corn significantly (p<....) impacted broiler performance criteria. However, enzyme supplementation significantly (p= ··· Y) improved the feed conversion ratio to the extent obtained in the corn control. The villus absorptive surface area was shrunk in birds fed a barley ... diet compared to the corn diet. Nevertheless, supplementation of the barley diet with the enzyme mixture significantly (p= ... Y) restored the situation

كلمات كليدى:

Cereal type, Chicken, Enzymes, Gut, Performance

لینک ثابت مقاله در پایگاه سیویلیکا:



